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September 1990

The American Chestnut: A Bibliography

A bibliography of references to *Castanea dentata* and other chestnut species, and on Chestnut Blight and its causal pathogen of the fungal genus *Endothia* or *Cryphonectria*.

By

Herman S. Forest
State University of New York
Geneseo

Richard J. Cook
Rochester, NY

and

Charles N. Bebee
National Agricultural Library

National Agricultural Library
Beltsville, Maryland

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ACKNOWLEDGMENTS

We owe thanks to Jean Quinn Wade, who started with Dick Cook's collection of file cards and all manner of disorderly references given her over a 10-year period. Out of these she standardized, organized, and typed the preliminary edition of this bibliography (1986). The completion afterward was not easy, but it would have been impossible without having the foundation of Jean's infinite patience and devotion to build upon.

We also owe thanks to many individuals for bringing this writing to publication, and we hope that all of them will be assured of our personal thanks. We will name only the word processors, but hope that all who are due thanks will feel equally appreciated. Richard Baker was a conscientious reader while doing the work with skill and imagination for the principal list. Bonnie DePuy gave the same skill and competence to the section which has been added. Judy Bushnell of the Milne Library conducted computerized searches for the base list. Through the initiative of Charles Bebee of the National Agricultural Library, a computer search was made for a number of European and Asiatic references; these and added English language sources make up List Two, which is keyed separately. Finally, preparation of the copy would not have been possible without the contribution of William Davis, head of Academic Computing at the State University College, Geneseo. The Northern Nut Growers Association, which had accepted the bibliography for publication, graciously released it to the U.S. Department of Agriculture.

PREFACE

This is the first comprehensive bibliography of American chestnut research since that of Beattie (1914). Beattie's bibliography was prepared for the Pennsylvania Chestnut Blight Commission and includes commission reports as a major portion. The 349 citations have been incorporated here, although most of the references do not meet modern standards for information content. Nevertheless, the occasional investigator of the early blight period will find them very useful. Through this and other sources, it has also been possible to identify pre-blight publications as well.

Many of the references included here extend the scope well beyond *Castanea dentata* (Marsh.) Borkh. and *Endothia parasitica* (Murr.) And. and And. and its synonyms. Users are referred to Micales and Stipes (1987) for a discussion of the generic names *Endothia* and *Cryphonectria*. Some general manuals and subject area summaries are included, and other species of both *Castanea* and *Endothia* are included, but there has been no attempt to provide comprehensive coverage for them. In all cases, the test for inclusion is that the reference has been used for studies of the American chestnut or its blight and listed as a source. The entire bibliography from the monograph on *Endothia* (Roane, Griffin, and Elkins, 1986) has been incorporated.

In working with a bibliography over a period of 12 years, trends in research and publication become apparent. Jean Q. Wade carefully tabulated the entries by time period and subject, providing the data for a few observations here:

The interest in fungi, particularly pathogens, was strong in the 19th Century and continues today. In contrast, nucleic acid and other biochemical studies are relatively recent. In the early blight period, there was a major effort to understand the life cycle, spread, and pathogenic action of the blight fungus.

There has been only one attempt to summarize the history of the blight and research related to the blight, "Fifty years of Chestnut Blight in America" (Beattie and Diller, 1954). They observed that, "All of the cooperative work (among Federal and State scientists) slowed and almost came to a close in 1914 and 1915 when chestnut blight appropriations were greatly reduced. The organizations were broken up and the men scattered to do other work. The attempt to understand and stop the blight was meager. From 1906 to 1910, (while the disease was spreading north, south, and west from New York City), only a few hundred dollars a year of Federal money were available... In that year (1911) Congress appropriated \$5,000. In 1912 an appropriation of \$80,000 was made, and this was repeated the following year... the Pennsylvania legislature appropriated \$240,000 for the 1913-14 biennium" (Beattie and Diller, 1954).

The number of publications reflects the abandonment of the first attempt at blight control. There were over 300 between 1900 and 1920 and scarcely over 50 in 1921-1940. As may be expected, some writings on how to salvage dead trees were generated.

However, the American chestnut did not disappear. Beattie and Diller (1954) reported that it required about 40 years (to about 1944) for the blight to spread throughout the natural range, but 13 years later Diller (1957) could report living trees all over the range. Research reflected the realization that the kill was not complete. One approach was to document survival, and a still-active search for resistant individuals in nature began. Plant ecologists later took up the study

of community dynamics after the blight. Virtually nothing was done on the ecology of survival until much later (Cook and Forest, 1979; Forest and Cook, 1980; Griffin, 1989). The major shift in research attention was to replacement by other *Castanea* species, or breeding between *C. dentata* and other species. In 1947, the U.S. Division of Forest Pathology established test plots for hybrids that had been developed during the previous 15 years or so. In the period 1940-70, the number of publications (adjusted) increased by about 50 percent.

The modern period of chestnut research (1971-) was initiated by the discovery of hypovirulence, and proceeded with the identification of the causative agent as double-stranded RNA. At the same time, improved technology enabled a renewed interest in the mode of action between both host-fungus and fungus-virus. These studies are principally basic in nature, although a few suggestions of chemical therapy have been made. There are still many naturally surviving trees throughout the natural range (and elsewhere) to encourage popular support and research interest (Cook and Forest, 1988).

Interest in chestnut research is now widespread, and some centers, notably the Connecticut Agricultural Experiment Station, have maintained a group of investigators for entire careers.

Chestnut research has benefitted from the general trends of more people, more scientists, and more support. The number of publications since 1970 has risen about 75 percent over the previous period (adjusted).

The American Phytopathological Society has continued to provide a communications link and publications outlet for scientists, and the Northern Nut Growers Association has been the principal vehicle of those services for both professionals and involved laymen. There are now two foundations and a growers' exchange directed at research. The American chestnut has fired considerable popular interest, some of which has been channeled to support research and publication. Newspaper and other nontechnical writings have been excluded from this bibliography, except when the authors also have written research reports. Several were collected in the course of search, and they are available in an informal *excludenda*, along with incomplete and otherwise questionable or inappropriate listings. No attempt was made to complete popular references.

Finally, we hope that the task of compiling this bibliography will not need to be done again. It is now possible to maintain the currency of the list through computer search procedures available in many libraries. The authors hope that there will be an organized effort hereafter to update search procedure and to communicate current literature. We also hope that our mistakes will be corrected.

H.S. Forest, Geneseo, Geneseo, N.Y. September 1990

KEY TO REFERENCES

I General or uncertain references, including cytology, histology, pathology, pests; excludes *Endothia* references.

144, 152, 157, 162, 180, 182-184, 186, 192-194, 207, 209-212, 214, 215, 220, 233-235, 265, 270, 273-275, 283, 284, 298, 305, 309, 314, 321, 322, 345, 355, 376, 392, 399, 415, 416, 439, 449-453, 489, 499, 514, 517, 543, 556, 557, 560, 563, 564, 575, 587, 592, 622, 650, 672, 673, 684, 703, 711, 714, 745-748, 750, 751, 812, 822, 827, 829, 832, 840, 852, 859, 860, 875, 879, 885, 886, 895-898, 901-903, 917, 921, 923, 926, 928, 929, 975-977, 986, 1001, 1021, 1027, 1071, 1077, 1138, 1139, 1142, 1158, 1273-1278, 1280, 1282, 1297, 1303, 1305, 1313, 1317, 1318, 1323, 1333, 1336, 1347, 1349, 1356, 1357, 1368, 1371, 1389, 1399, 1412-1417, 1425, 1430, 1431, 1446, 1451, 1458, 1462, 1467, 1473, 1480, 1489, 1495.

II *Castanea* species except *C. dentata* and uncertain or general references to chestnut; includes commercial aspects, nurture, propagation and disease resistance.

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IV *C. dentata* (2) genetics including hybridization with other species; includes general references to genetics also.

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VI *C. dentata* (4) Natural Survival.

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VII *C. dentata* (5) ecological and vegetational references, and general references to ecology, flora, and systematics.

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VIII *C. dentata* (6) impact of chestnut decline on communities replacement by other species.

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XII General references to blight pathogen and chestnut blight occurrence, extent, identification, symptoms, culture.

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XVII *E. parasitica* (4) and synonyms; biochemistry except nucleic acids and viruses; cytology, physiology.
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XIX *E. parasitica* (6) biological control, hypovirulence an unspecified resistance to blight in *Castanea dentata*; hybrid resistance. see IV; other species, II.
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XX References in languages other than English; also keyed in other categories.
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The number sequence is continued from the base list, but a separate key to the references has been prepared with the same categories.

KEY TO REFERENCES

I General or uncertain references, including cytology, histology, pathology, pests; excludes *Endothia* references.

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II *Castanea* species except *C. dentata* and uncertain or general references to chestnut; includes commercial aspects, nurture, propagation and disease resistance.

1506, 1508, 1510, 1514, 1516-1518, 1520-1522, 1525, 1527-1532, 1534, 1535, 1537, 1539, 1542-1546, 1552-1554, 1556, 1557, 1559-1561, 1564, 1567, 1570, 1572, 1574, 1576, 1577, 1580-1582, 1587-1591, 1593, 1596, 1597, 1605, 1606, 1608, 1610-1613, 1617, 1618, 1620, 1621, 1623-1625, 1627, 1639, 1640, 1642-1646, 1648, 1651, 1652, 1656, 1658, 1660, 1663, 1665, 1666, 1674, 1675, 1678, 1679, 1681, 1682, 1686, 1687, 1689, 1690, 1692-1698, 1700-1702, 1706, 1709, 1711-1713, 1717-1719, 1721, 1722, 1724, 1725, 1727, 1728, 1730, 1731, 1735, 1737-1739, 1741-1743, 1745-1756, 1758-1760, 1764-1766, 1769, 1775-1789, 1782, 1784-1789, 1791-1794, 1797, 1799, 1800, 1803, 1806, 1810-1812.

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1638, 1687.

IV *C. dentata* (2) genetics including hybridization with other species; includes general references to genetics also.

None

V *C. dentata* (3) diseases other than blight; pests.

1565, 1583.

VI *C. dentata* (4) Natural Survival

1583, 1603, 1661.

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1688.

VIII *C. dentata* (6) impact of chestnut decline on communities replacement by other species.

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None

X Dated references (2) 1901-1920; includes publications of Pennsylvania Chestnut Blight Commission, and only previous bibliography (Beattie, 1914).

None

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XII General references to blight pathogen and chestnut blight occurrence, extent, identification, symptoms, culture.

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XVII *E. parasitica* (4) and synonyms; biochemistry except nucleic acids and viruses; cytology, physiology.

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XVIII *E. parasitica* (5) nucleic acids, viruses.

1607, 1691, 1703, 1704, 1773, 1807.

XIX *E. parasitica* (6) biological control, hypovirulence an unspecified resistance to blight in *Castanea dentata*; hybrid resistance, see IV; other species, II.

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